

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A method of recording ~~data playback speed information on a recording medium, comprising:~~

recording a ~~video-main~~ data on the recording medium; and

recording playback speed information for the ~~video-main~~ data in a control area ahead of followed by a data area where the ~~video-main~~ data is recorded.

2. (Currently amended) The method as set forth in claim 1, wherein the control area is lead-in area, the playback speed information is recorded within a ~~disc-control~~ information table allocated in the a PIC-lead-in area on the recording medium.

3. (Currently amended) The method as set forth in claim 2, further comprising:
recording wherein the playback speed information is recorded in one byte long field of maximum transfer rate information of application allocated in the disc-control information table, wherein the maximum transfer rate information specifies the maximum transfer rate needed by an application.

4. (Currently amended) The method as set forth in claim 2, wherein the playback speed information is ~~recorded within a part of a reserved area field allocated in the disc information table~~ represents 1.2 or 1.5 times of reference speed.

5. (Currently amended) The method as set forth in claim 1, wherein the playback speed information is determined such that the ~~video-main~~ data on the recording medium is reproduced at a ~~transfer rate of 36Mbps or faster~~ 1.2 or 1.5 times of reference speed.

6. (Currently amended) The method as set forth in claim 1, wherein the playback speed information is determined such that the ~~video-main~~ data on the recording medium is reproduced at a transfer rate of 36 Mbps, 40Mbps or faster.

7. (Currently amended) The method as set forth in claim 1, wherein the playback speed information is recorded as a ratio of transfer rate of the ~~video-main~~ data to a standard transfer rate of a digital television broadcast stream.

8. (Currently amended) A recording medium, comprising:
a data area storing ~~video-main~~ data recorded thereon; and
playback speed information ~~about transfer rate of~~ associated with a playback speed of the video main data, wherein the playback speed information is recorded in a control area followed by ~~ahead of~~ the data area.

9. (Currently amended) The recording medium as set forth in claim 8, wherein the playback speed information is recorded within a ~~disc-control~~ information table allocated in a ~~PIC~~ the control area on the recording medium.

10. (Currently amended) The recording medium as set forth in claim 9, further comprising:
~~wherein the playback speed information is recorded in one-byte long field of maximum transfer rate~~ information specifying the maximum transfer rate required of by application allocated in the disc ~~information table.~~

11. (Currently amended) The recording medium as set forth in claim 9, wherein the playback

speed information represents 1.2 or 1.5 times of reference speed~~is recorded within a reserved area field allocated in the disc information table.~~

12. (Currently amended) The recording medium as set forth in claim 8, wherein the playback speed information is determined such that the video-main data on the recording medium is reproduced at a transfer rate that is equal to or faster than a standard transfer rate of a digital television broadcast stream.

13. (Currently amended) The recording medium as set forth in claim 8, wherein the playback speed information is recorded as a ratio of transfer rate of the video-main data to a standard transfer rate of a digital television broadcast stream.

14. (Currently amended) A method of reproducing a video-data recorded on a recording medium, comprising the steps of:

driving the recording medium on which the video-main data is recorded;
obtaining playback speed information for the video-main data from the recording medium; and
reproducing the video-main data by referring to while driving the recording medium at a speed equal to or faster than a speed specified by the playback speed information.

15. (Currently amended) The method as set forth in claim 14, wherein the driving step drives the recording medium at a predetermined basic speed of the recording medium.

16. (Currently amended) The method as set forth in claim 14, wherein the driving step drives the recording medium for a data area at a maximum speed at which a ~~disc~~-reproducing apparatus can read out data from the data area ~~including the playback speed information.~~

17. (Currently amended) The method as set forth in claim 14, wherein the playback speed information is obtained from a ~~disc-control~~ information allocated in a ~~PICa control~~ area on the recording medium.

18. (Currently amended) The method as set forth in claim 14, wherein ~~in the reproducing-driving~~ step, drives the recording medium ~~is driven~~ such that the ~~video-main~~ data is read out at a transfer rate that is equal to or faster than a standard transfer rate of digital television broadcast stream.

19. (Currently amended) The method as set forth in claim 14, wherein, in the reproducing step, if it is determined that the recording medium can not be driven exactly at a speed specified by the playback speed information, and if a disc reproducing apparatus supports multiple playback speed levels, the ~~video~~ main data is reproduced at a speed that is the closest one faster than the specified speed among the multiple playback speed levels.

20. (New) The method as set forth in claim 14, wherein the reproducing step drives the recording medium at a speed equal to or faster than a speed specified by the playback speed information.

21. (New) The method as set forth in claim 14, further comprising:
obtaining maximum transfer rate information for the main data from the recording medium; and
reproducing the main data by referring to the playback speed information and the maximum transfer rate information.

22. (New) A method of recording data on a recording medium, comprising the steps of:
recording a control information on a specific area of the recording medium, the control information including a playback speed information and a maximum transfer rate information specifying the maximum transfer rate needed by an application, wherein the playback speed information is distinguished from the maximum transfer rate information; and
recording main data on a main data area.

23. (New) The method of claim 22, wherein the specific area is lead-in area, the playback speed information and the maximum transfer rate information are recorded within a control information table allocated in the lead-in area on the recording medium.

24. (New) The method of claim 23, wherein the control information table further includes a recording medium size and version information specifying the medium size and version number respectively, a medium structure information specifying the number of recorded layers and the type of the recorded layers, and a recording density information associated with recording density of the recording medium.

25. (New) The method of claim 22, wherein the playback speed information represents 1.2 or 1.5 times of reference speed.

26. (New) The method of claim 22, wherein the playback speed information is determined such that the main data on the recording medium is reproduced at 1.2 or 1.5 times of reference speed.

27. (New) The method of claim 22, wherein the playback speed information is determined such

that the main data on the recording medium is reproduced at a transfer rate of 36 Mbps, 40Mbps or faster.

28. (New) The method of claim 22, wherein the playback speed information is recorded as a ratio of transfer rate of the main data.

29. (New) A recording medium having a data structure, wherein the data structure includes a main data and a control data, the control data is recorded in a specific area of the recording medium, and includes a playback speed information and a maximum transfer rate information specifying the maximum transfer rate needed by an application, wherein the playback speed information is distinguished from the maximum transfer rate information.

30. (New) The recording medium of claim 29, wherein the specific area is lead-in area, the playback speed information and the maximum transfer rate information are recorded within a control information table allocated in the lead-in area on the recording medium.

31. (New) The recording medium of claim 30, wherein the control information table further includes a recording medium size and version information specifying the medium size and version number respectively, a medium structure information specifying the number of recorded layers and the type of the recoded layers, and a recording density information associated with recording density of the recording medium.

32. (New) The recording medium of claim 29, wherein the playback speed information represents 1.2 or 1.5 times of reference speed.

33. (New) The recording medium of claim 29, wherein the playback speed information is recorded such that the main data on the recording medium is reproduced at 1.2 or 1.5 times of reference speed.

34. (New) The recording medium of claim 29, wherein the playback speed information is recorded such that the main data on the recording medium is reproduced at a transfer rate of 36 Mbps, 40Mbps or faster.

35. (New) The recording medium of claim 29, wherein the playback speed information is recorded as a ratio of transfer rate of the main data.

36. (New) A method of reproducing data from a recording medium, the comprising steps of:
reading a control information from a specific area of the recording medium, the control information including a playback speed information and a maximum transfer rate information specifying the maximum transfer rate needed by an application, wherein the playback speed information is distinguished from the maximum transfer rate information; and
reproducing a main data recorded on a main data area in response to the playback speed information and/or the maximum transfer rate information.

37. (New) The method of claim 36, wherein the specific area is lead-in area, the playback speed information and the maximum transfer rate information are recorded within a control information table allocated in the lead-in area on the recording medium.

38. (New) The method of claim 37, wherein the control information table further includes a

recording medium size and version information specifying the medium size and version number respectively, a medium structure information specifying the number of recorded layers and the type of the recorded layers, and a recording density information associated with recording density of the recording medium.

39. (New) The method of claim 36, wherein the reproducing step reproduces the main data in response to the playback speed information representing 1.2 or 1.5 times of reference speed.

40. (New) The method of claim 36, wherein the reproducing step reproduces the main data in response to the playback speed information determined such that the main data is reproduced at 1.2 or 1.5 times of reference speed.

41. (New) The method of claim 36, wherein the reproducing step reproduces the main data in response to the playback speed information determined such that the main data is reproduced at a transfer rate of 36 Mbps, 40Mbps or faster.

42. (New) The method of claim 36, wherein the reproducing step reproduces the main data in response to the playback speed information recorded as a ratio of transfer rate of the main data.